

WHAT IS CLAIMED IS:

1. A fuel injector comprising:

a needle valve for injecting fuel from an injection port;

a cylindrical member containing therein a pushing spring
to said needle valve; and

a sleeve body for receiving said cylindrical member in
an abutment condition so as to expose said injection port;

wherein a support portion having an enlarged diameter
toward an inner circumference of said sleeve body is provided
in a part of an outer circumference of said cylindrical member.

2. A fuel injector according to claim 1, wherein said
cylindrical member contains therein a plunger for pressurizing
the fuel to be fed to said needle valve.

3. A fuel injector according to claim 1, wherein said
support portion is formed in the middle in the axial direction
of said cylindrical member.

4. A fuel injector according to claim 1, wherein said
cylindrical member is divided into two or more parts in the axial
direction.

5. A fuel injector according to claim 1, wherein a drain
passage for leaking fuel is formed between said cylindrical
member and said sleeve body.

6. A fuel injector according to claim 1, wherein said
support portion is formed as a short cylindrical member obtained

by dividing said cylindrical member.

7. A fuel injector according to claim 1, wherein said support portion is a short cylindrical member serving as a separating plate between an injection mechanism and a pressure increasing mechanism.

8. A fuel injector according to claim 1, wherein cutaways are formed in an outer circumference of said support portion.

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